Title (en)

METHOD AND DEVICE FOR ERROR DIAGNOSIS IN AN ENGINE SYSTEM WITH VARIABLE VALVE CONTROLS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR FEHLERDIAGNOSE IN EINEM MOTORSYSTEM MIT VARIABLER VENTILANSTEUERUNG

Title (fr)

PROCÉDÉ ET DISPOSITIF PERMETTANT LE DIAGNOSTIC D'ERREURS DANS UN SYSTÈME MOTEUR AVEC COMMANDE DE SOUPAPE VARIABLE

Publication

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Application

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Abstract (en)

[origin: WO2009124891A1] The invention relates to a method for diagnosing the function of one or more variably controllable inlet (8) and/or outlet valves (12) in an internal combustion engine (1); comprising the following steps: - determining a modeled pressure (Pmod) using a pressure profile model, said modeled pressure providing an indication of a pressure in an air system of the internal combustion engine (1), wherein the pressure profile model describes a pressure profile of an error-free internal combustion engine (1) as a function of operating points: providing an indication of the actual, instantaneous pressure (Pman) in the air system; determining a deviation amount as a function of the modeled pressure (Pmod) and the indication of the actual pressure (Pman) in the air system; recognizing an error in the function of the inlet (8) and/or outlet valve (12) as a function of the deviation amount.

IPC 8 full level

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